ELSEVIER

Journal of Controlled Release 61 (1999) 381–383

journal of controlled release

www.elsevier.com/locate/jconrel

Author Index Volume 61 (1999)

Barnett, P., see Patel, D. (61) 175
Bei, J., see Lu, Z. (61) 107
Bettini, R., see Colombo, P. (61) 83
Bodmeier, R., see Krögel, I. (61) 43
Braden, M., see Riggs, P.D. (61) 165
Cantor, A.S., Drug and excipient diffusion and solubility in acrylate adhesives measured by infrared-attenuated total reflectance (IR-ATR) spectroscopy (61) 219
Charman, S.A., see Simon, L.D. (61) 159
Charman, S.A., see Simon, L.D. (61) 267
Charman, W.N., see Simon, L.D. (61) 159
Charman, W.N., see Simon, L.D. (61) 267
Choe, Y.H., see Greenwald, R.B. (61) 281
Clough, A.S., see Riggs, P.D. (61) 165
Colombo, P., Bettini, R. and Peppas, N.A., Observation of swelling process and diffusion front position during swelling in hydroxypropyl methyl cellulose (HPMC) matrices containing a soluble drug (61) 83
Conover, C.D., see Greenwald, R.B. (61) 281

Drew, D.W., see Riggs, P.D. (61) 165

Elliott, G.R.E., see Woolfson, A.D. (61) 319
Ertl, B., Platzer, P., Wirth, M. and Gabor, F., Poly(D,L-lactic-co-glycolic acid) microspheres for sustained delivery and stabilization of camptothecin (61) 305

Farrell, S. and Sirkar, K.K., A mathematical model of an aqueous–organic partition-based controlled release system using microporous membranes (61) 345
Freedman, B.D., see Santos, C.A. (61) 113

Gabor, F., see Ertl, B. (61) 305
Gabor, F., see Huter, V. (61) 51
Gampfer, J., see Huter, V. (61) 51
Gilligan, C.A., see Woolfson, A.D. (61) 319
Gowrishankar, T.R., see Ilic, L. (61) 185
Greenwald, R.B., Conover, C.D., Pendri, A., Choe, Y.H., Martinez, A., Wu, D., Guan, S., Yao, Z. and Shum, K.L., Drug delivery of anticancer agents: water soluble 4-poly (ethylene glycol) derivatives of the lignan, podophyllotoxin (61) 281
Grist, N., see Patel, D. (61) 175
Guan, S., see Greenwald, R.B. (61) 281
Guy, R.H., see Merino, V. (61) 65

Harashima, H., Iida, S., Urakami, Y., Tsuchihashi, M. and Kiwada, H., Optimization of antitumor effect of liposomaly encapsulated doxorubicin based on simulations by pharmacokinetic/pharmacodynamic modeling (61) 93
Harashima, H., see Tsuchihashi, M. (61) 9
Harnpicharnchai, P., see Santos, C.A. (61) 113
Hashida, M., see Ogawara, K.-i. (61) 241
Hayashi, A., see Nakanishi, T. (61) 233
Herndon, T.O., see Ilic, L. (61) 185
Hertzog, B.A., see Santos, C.A. (61) 113
Higaki, K., see Ogawara, K.-i. (61) 241
Hochstrasser, D., see Merino, V. (61) 65
Hoffman, A.S., see Murthy, N. (61) 137
Holborow, D.W., see Medlicott, N.J. (61) 337
Huter, V., Szostak, M.P., Gampfer, J., Prethaler, S., Wanner, G., Gabor, F. and Lubitz, W., Bacterial ghosts as drug carrier and targeting vehicles (61) 51

Iida, S., see Harashima, H. (61) 93
Ikeda, M., see Miyajima, M. (61) 295
Ilic, L., Gowrishankar, T.R., Vaughan, T.E., Herndon, T.O. and Weaver, J.C., Spatially constrained skin electroporation with sodium thiosulfate and urea creates transdermal microconduits (61) 185

Jacob, J.S., see Santos, C.A. (61) 113
Jenneson, P.M., see Riggs, P.D. (61) 165
Jones, D.S., see Medlicott, N.J. (61) 337

Kandimalla, K.K., Kanikkannan, N. and Singh, M., Optimization of a vehicle mixture for the transdermal delivery of melatonin using artificial neural networks and response surface method (61) 71
Kanikkannan, N., see Kandimalla, K.K. (61) 71
Kimura, T., see Ogawara, K.-i. (61) 241
Kissel, T., see Mohr, D. (61) 203
Kiwada, H., see Harashima, H. (61) 93
Kiwada, H., see Tsuchihashi, M. (61) 9
Kopeček, J., see Shiah, J.-G. (61) 145
Koshika, A., see Miyajima, M. (61) 295
Krögel, I. and Bodmeier, R., Development of a multifunctional matrix drug delivery system surrounded by an impermeable cylinder (61) 43
Kubo, J.-i., see Ogawara, K.-i. (61) 241

PII: S0168-3659(99)00182-0

Kubo, K., see Nakanishi, T. (61) 233
Kunisawa, J., see Nakanishi, T. (61) 233

Lee, S.J. and Rosenberg, M., Preparation and properties of glutaraldehyde cross-linked whey protein-based microcapsules containing theophylline (61) 123
Lee, T., see Wang, C.-H. (61) 21
Li, J., see Wang, C.-H. (61) 21
López, A., see Merino, V. (61) 65
Lowman, A.M., see Nakamura, K. (61) 329
Lu, Z., Bei, J. and Wang, S., A method for the preparation of polymeric nanocapsules without stabilizer (61) 107
Lubitz, W., see Huter, V. (61) 51

Machida, Y., see Yahagi, R. (61) 1
Maitani, Y., see Nakamura, K. (61) 329
Martinez, A., see Greenwald, R.B. (61) 281
Mathiowitz, E., see Santos, C.A. (61) 113
Mayumi, T., see Nakanishi, T. (61) 233
Medlicott, N.J., Holborow, D.W., Rathbone, M.J., Jones, D.S. and Tucker, I.G., Local delivery of chlorhexidine using a tooth-bonded delivery system (61) 337
Merino, V., López, A., Hochstrasser, D. and Guy, R.H., Noninvasive sampling of phenylalanine by reverse iontophoresis (61) 65
Merkle, H.P., see Walter, E. (61) 361
Miyajima, M., Koshika, A., Okada, J. and Ikeda, M., Effect of polymer/basic drug interactions on the two-stage diffusion-controlled release from a poly(L-lactic acid) matrix (61) 295
Moelling, K., see Walter, E. (61) 361
Mohr, D., Wolff, M. and Kissel, T., Gamma irradiation for terminal sterilization of 17β-estradiol loaded poly-(D,L-lactide-co-glycolide) microparticles (61) 203
Muller, S., see Rocca, S. (61) 251
Murthy, N., Robichaud, J.R., Tirrell, D.A., Stayton, P.S. and Hoffman, A.S., The design and synthesis of polymers for eukaryotic membrane disruption (61) 137

Nagai, T., see Nakamura, K. (61) 329
Nakagawa, S., see Nakanishi, T. (61) 233
Nakamura, K., Maitani, Y., Lowman, A.M., Takayama, K., Peppas, N.A. and Nagai, T., Uptake and release of budesonide from mucoadhesive, pH-sensitive copolymers and their application to nasal delivery (61) 329
Nakanishi, M., see Nakanishi, T. (61) 233
Nakanishi, T., Kunisawa, J., Hayashi, A., Tsutsumi, Y., Kubo, K., Nakagawa, S., Nakanishi, M., Tanaka, K. and Mayumi, T., Positively charged liposome functions as an efficient immunoadjuvant in inducing cell-mediated immune response to soluble proteins (61) 233
Nishikawa, M., see Ogawara, K.-i. (61) 241

Ogawara, K.-i., Yoshida, M., Kubo, J.-i., Nishikawa, M., Takakura, Y., Hashida, M., Higaki, K. and Kimura, T., Mechanisms of hepatic disposition of polystyrene microspheres in rats: Effects of serum depend on the sizes of microspheres (61) 241
Okada, J., see Miyajima, M. (61) 295
Onishi, H., see Yahagi, R. (61) 1

Passmore, C.M., see Woolfson, A.D. (61) 319
Patel, D., Smith, A.W., Grist, N., Barnett, P. and Smart, J.D., An in vitro mucosal model predictive of bioadhesive agents in the oral cavity (61) 175
Patel, M.P., see Riggs, P.D. (61) 165
Pavlovic, J., see Walter, E. (61) 361
Pendri, A., see Greenwald, R.B. (61) 281
Peppas, N.A., see Colombo, P. (61) 83
Peppas, N.A., see Nakamura, K. (61) 329
Peterson, C.M., see Shiah, J.-G. (61) 145
Platzer, P., see Ertl, B. (61) 305
Press, D.L., see Santos, C.A. (61) 113
Prethaler, S., see Huter, V. (61) 51

Rathbone, M.J., see Medlicott, N.J. (61) 337
Riggs, P.D., Clough, A.S., Jenneson, P.M., Drew, D.W., Braden, M. and Patel, M.P., ^{3}He ion-beam analysis of water uptake and drug delivery (61) 165
Robichaud, J.R., see Murthy, N. (61) 137
Rocca, S., Muller, S. and Stébé, M.J., Release of a model molecule from highly concentrated fluorinated reverse emulsions. Influence of composition variables and temperature (61) 251
Rosenberg, M., see Lee, S.J. (61) 123

Santos, C.A., Jacob, J.S., Hertzog, B.A., Freedman, B.D., Press, D.L., Harnpicharnchai, P. and Mathiowitz, E., Correlation of two bioadhesion assays: the everted sac technique and the CAHN microbalance (61) 113
Shiah, J.-G., Sun, Y., Peterson, C.M. and Kopeček, J., Biodistribution of free and *N*-(2-hydroxypropyl)methacrylamide copolymer-bound mesochlorin e_6 and adriamycin in nude mice bearing human ovarian carcinoma OVCAR-3 xenografts (61) 145
Shum, K.L., see Greenwald, R.B. (61) 281
Simon, L.D., Stella, V.J., Charman, W.N. and Charman, S.A., Variation in the diffusion and release of ribonuclease through and from esterified hyaluronic acid membranes: Effect of changes in matrix characteristics (61) 159
Simon, L.D., Stella, V.J., Charman, W.N. and Charman, S.A., Mechanisms controlling diffusion and release of model proteins through and from partially esterified hyaluronic acid membranes (61) 267
Singh, M., see Kandimalla, K.K. (61) 71
Sirkar, K.K., see Farrell, S. (61) 345
Smart, J.D., see Patel, D. (61) 175
Smith, A.W., see Patel, D. (61) 175
Stayton, P.S., see Murthy, N. (61) 137
Stébé, M.J., see Rocca, S. (61) 251
Stella, V.J., see Simon, L.D. (61) 159
Stella, V.J., see Simon, L.D. (61) 267
Sun, Y., see Shiah, J.-G. (61) 145
Szostak, M.P., see Huter, V. (61) 51

Takakura, Y., see Ogawara, K.-i. (61) 241
Takayama, K., see Nakamura, K. (61) 329
Tanaka, K., see Nakanishi, T. (61) 233
Teo, C.S., see Wang, C.-H. (61) 21

Tirrell, D.A., see Murthy, N. (61) 137
Tsuchihashi, M., Harashima, H. and Kiwada, H., Development of a pharmacokinetic/pharmacodynamic (PK/PD)-simulation system for doxorubicin in long circulating liposomes in mice using peritoneal P388 (61) 9
Tsuchihashi, M., see Harashima, H. (61) 93
Tsutsumi, Y., see Nakanishi, T. (61) 233
Tucker, I.G., see Medlicott, N.J. (61) 337

Urakami, Y., see Harashima, H. (61) 93

Vaughan, T.E., see Ilic, L. (61) 185

Walter, E., Moelling, K., Pavlovic, J. and Merkle, H.P., Microencapsulation of DNA using poly(DL-lactide-co-glycolide): stability issues and release characteristics (61) 361
Wang, C.-H., Li, J., Teo, C.S. and Lee, T., The delivery of BCNU to brain tumors (61) 21
Wang, S., see Lu, Z. (61) 107
Wanner, G., see Huter, V. (61) 51
Weaver, J.C., see Ilic, L. (61) 185
Wirth, M., see Ertl, B. (61) 305
Wolff, M., see Mohr, D. (61) 203
Woolfson, A.D., Elliott, G.R.E., Gilligan, C.A. and Passmore, C.M., Design of an intravaginal ring for the controlled delivery of 17β-estradiol as its 3-acetate ester (61) 319
Wu, D., see Greenwald, R.B. (61) 281

Yahagi, R., Onishi, H. and Machida, Y., Preparation and evaluation of double-phased mucoadhesive suppositories of lidocaine utilizing Carbopol® and white beeswax (61) 1
Yao, Z., see Greenwald, R.B. (61) 281
Yoshida, M., see Ogawara, K.-i. (61) 241

ELSEVIER

Journal of Controlled Release 61 (1999) 385–386

journal of controlled release

www.elsevier.com/locate/jconrel

Subject Index Volume 61 (1999)

Adriamycin (doxorubicin), (61) 145
Antigen-presenting cell , (61) 233
Aqueous–organic partitioning, (61) 345
Artificial neural networks, (61) 71

Bacterial ghosts, (61) 51
Basic drugs, (61) 295
Bioadhesion, (61) 113, (61) 175
Biodegradable polymer, (61) 295
Biodistribution, (61) 145
1-3-Bis(2-chloroethyl)-1-nitrosourea, (61) 21
Bovine serum albumin, (61) 107
Budesonide, (61) 329

CAHN microbalance, (61) 113
Camptothecin, (61) 305
Cancer, (61) 281
Carbopol®, (61) 1
Cell-mediated immune response, (61) 233
Chemotherapy, (61) 305
Chitosan, (61) 175
Chlorhexidine, (61) 337
Clinical chemistry, (61) 65
Concanavalin A, (61) 175
Concentrated emulsions, (61) 251
Conjugates, (61) 281
Controlled drug delivery, (61) 43
Controlled release, (61) 123
Cross-linking, (61) 123

DNA, (61) 361
Delivery, (61) 281
Diffusion coefficient, (61) 251
Diffusion front, (61) 83
Diffusion-controlled release, (61) 295
Diffusional release kinetics, (61) 345
Diffusion, (61) 165, (61) 219
Double-phased suppository, (61) 1
Doxorubicin, (61) 93
Drug delivery system, (61) 9, (61) 93
Drug delivery, (61) 51, (61) 137, (61) 165
Drug loading, (61) 83
Drug release, (61) 251
Drug, (61) 219

Dysopsonin, (61) 241

EPR effect, (61) 145
Electroporation, (61) 185
Endosomal release, (61) 137
17β-Estradiol-3-acetate, (61) 319
17β-Estradiol, (61) 203, (61) 319
Everted intestinal sac, (61) 113

First-pass effect, (61) 1
Floating drug delivery system, (61) 43
Fluorinated compounds, (61) 251

Gamma irradiation, (61) 203
Gene therapy, (61) 137

Hemolysis, (61) 137
Hepatic uptake, (61) 241
Human skin, (61) 185
Hyaluronic acid esters, (61) 159, (61) 267
Hydroxypropyl methylcellulose, (61) 43

Immunoadjuvant, Infrared, (61) 219
Intravaginal ring, (61) 319
Ion-beam analysis, (61) 165
Iontophoresis, (61) 65

Liposomes, (61) 93
Liver perfusion, (61) 241

Mathematical model, (61) 345
Matrix systems, (61) 43
Melatonin, (61) 71
Membrane-controlled release, (61) 345
Mesochlorin e_6 monoethylenediamine, (61) 145
Microcapsules, (61) 123
Microconduit (MC), (61) 185
Microencapsulation, (61) 305
Microparticles, (61) 361, (61) 203
Microsphere, (61) 113
Modelling, (61) 165
Mucoadhesion, (61) 175
Mucoadhesive copolymers, (61) 329
Mucoadhesive, (61) 1

PII: S0168-3659(99)00183-2

N-(2-Hydroxypropyl)methacrylamide copolymer, (61) 145

Nasal administration, (61) 329
Noninvasive monitoring, (61) 65

Opsonin, (61) 241
Optimization, (61) 93
Oral cavity, (61) 175
Oral drug delivery, (61) 43

pH-sensitive copolymers, (61) 329
pH-sensitive polymers, (61) 137
Phagocytosis, (61) 51
Pharmacodynamics, (61) 9
Pharmacokinetics, (61) 9
Phenylalanine, (61) 65
Phenylketonuria, (61) 65
Podophyllotoxin, (61) 281
Poly (acrylic acid), (61) 175
Poly(lactide-co-glycolide) (PLGA), (61) 361
Poly(D,L-lactic-co-glycolic acid), (61) 305
Poly(L-lactic acid), (61) 295
Poly(L-lactide), (61) 107
Poly(ε-caprolactone) films, (61) 337
Poly-(D,L-lactide-co-glycolide), (61) 203
Polyanhydride, (61) 113
Polycaprolactone-poly(ethylene oxide) block copolymer (PCE), (61) 107
Polyethylene glycol, (61) 281
Polymer membranes, (61) 159, (61) 267
Polymer–drug interaction, (61) 295
Polymeric delivery, (61) 21
Polymeric nanocapsules, (61) 107
Polystyrene microsphere, (61) 241
Positively charged liposome, Pressure-sensitive adhesives, (61) 219
Prodrug, (61) 319
Protein diffusion, (61) 159
Protein load, (61) 267

Protein permeability, (61) 267
Protein release, (61) 159, (61) 267
Pulsatile drug delivery, (61) 43

Rat, (61) 71
Response surface method, (61) 71
Reverse iontophoresis, (61) 65

Saliva concentration, (61) 337
Silicone, (61) 319
Simulation, (61) 9, (61) 21, (61) 93
Skin, (61) 65
Sodium thiosulfate (STS), (61) 185
Spray-drying method, (61) 203
Stability, (61) 361
Stratum corneum (SC), (61) 185
Streptavidin, (61) 51
Sustained release, (61) 361
Swellable matrices, (61) 83
Systemic administration, (61) 21

Theophylline, (61) 123
Tooth-bonded, (61) 337
Transdermal drug delivery, (61) 185
Transdermal vehicles, (61) 71
Transfectivity, (61) 361
Tumor, (61) 21

Urea, (61) 185

Vaccine targeting, (61) 51

W/O/W emulsion, (61) 107
Water, (61) 165
Whey proteins, (61) 123
White beeswax, (61) 1